

Chakrabarti

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#13

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/530,061

DATE: 12/05/2001

TIME: 13:17:01

Input Set : A:\Sp102001.app

Output Set: N:\CRF3\11212001\I530061.raw

ENTERED

3 <110> APPLICANT: Notomi, Tsugunori  
4 Hase, Tetsu  
6 <120> TITLE OF INVENTION: METHOD OF SYNTHESIZING NUCLEIC ACID  
8 <130> FILE REFERENCE: 201487/1020  
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/530,061  
C--> 11 <141> CURRENT FILING DATE: 2000-04-21  
13 <150> PRIOR APPLICATION NUMBER: PCT/JP99/06213  
14 <151> PRIOR FILING DATE: 1999-11-08  
16 <150> PRIOR APPLICATION NUMBER: JP-1998-317476  
17 <151> PRIOR FILING DATE: 1998-11-09  
19 <160> NUMBER OF SEQ ID NOS: 29  
21 <170> SOFTWARE: PatentIn Ver. 2.1  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 52  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Artificial Sequence  
28 <220> FEATURE:  
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially  
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37 <211> LENGTH: 51  
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39 <213> ORGANISM: Artificial Sequence  
41 <220> FEATURE:  
42 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially  
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46 acaacgtcgt gactgggaaa accctttttg tgcgggcctc ttcgctatta c 51  
49 <210> SEQ ID NO: 3  
50 <211> LENGTH: 21  
51 <212> TYPE: DNA  
52 <213> ORGANISM: Artificial Sequence  
54 <220> FEATURE:  
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially  
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59 actttatgct tccggctcgt a 21  
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64 <212> TYPE: DNA  
65 <213> ORGANISM: Artificial Sequence  
67 <220> FEATURE:  
68 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially  
69 synthesized primer sequence  
71 <400> SEQUENCE: 4

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72 gttgggaagg gcgatcg 17
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 600
77 <212> TYPE: DNA
78 <213> ORGANISM: Bacteriophage M13mp18
80 <400> SEQUENCE: 5
81 gcgccaata cgaaaccgc ctctccccgc gcgttgccg attcattaat gcagctggca 60
82 cgacaggttt cccgactgga aagcgggcag tgagcgcaac gcaattaatg tgagttagct 120
83 cactcattag gcacccagg ctttacctt tatgcttccg gctcgatgt tgtgtggaat 180
84 tgtgagcgga taacaatttc acacaggaaa cagctatgac catgattacg aattcgagct 240
85 cggtaaccgg ggatcctcta gagtcgacct gcaggcatgc aagcttgga ctggccgctc 300
86 ttttacaacg tcgtgactgg gaaaaccctg gcgttaccca acttaatcgc cttgcagcac 360
87 atcccccttt cgccagctgg cgtaatagcg aagaggcccg caccgatcgc ccttcccaac 420
88 agttgcgcag cctgaatggc gaatggcgct ttgcctgggt tccggcacca gaagcgggtc 480
89 cggaaagctg gctggagtg gccttccctg aggcgatac ggctcgtcgc cctcaaaact 540
90 ggcagatgca cggttacgat gcgcccatt acaccaacgt aacctatccc attacggtca 600
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95 <212> TYPE: DNA
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98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
100 synthesized primer sequence
102 <400> SEQUENCE: 6
103 ctcttccaaa agtaaggcag gaaatgtgaa accagatcgt aatttggaag acccagcatc 60
104 cag 63
107 <210> SEQ ID NO: 7
108 <211> LENGTH: 43
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
114 synthesized primer sequence
116 <400> SEQUENCE: 7
117 gtggattcgc actcctcccg ctgatcggga cctgcctcgt cgt 43
120 <210> SEQ ID NO: 8
121 <211> LENGTH: 16
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
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129 <400> SEQUENCE: 8
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133 <210> SEQ ID NO: 9
134 <211> LENGTH: 22
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:

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139 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
140     synthesized primer sequence
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143 ggcgagggag ttcttcttct ag                                22
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147 <211> LENGTH: 430
148 <212> TYPE: DNA
149 <213> ORGANISM: Hepatitis B virus
151 <400> SEQUENCE: 10
152 ctcttgaca ccgcctctgc tctgtatcgg gaggccttag agtctccgga acattgttca 60
153 cctcaccata cagcactcag gcaagctatt ctgtgttggg gtgagttaat gaatctggcc 120
154 aactgggttg gaagtaattt ggaagaccca gcatccaggg aattagtagt cagctatgtc 180
155 aatgttaata tgggcctaaa aatcagacaa ctattgtggt ttcacatttc ctgccttact 240
156 tttggaagag aaactgtttt ggagtatttg gtatcttttg gagtgtggat tcgcactcct 300
157 cccgcttaca gaccaccaa tgccctatc ttatcaacac ttccggaaac tactgttggt 360
158 agacgacgag gcaggtcccc tagaagaaga actccctcgc ctgcgacacg aaggtctcaa 420
159 tcgccgcgtc                                430
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163 <211> LENGTH: 293
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
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173 cgaaaggggg atgtgctgca aggcgattaa gttgggtaac gccagggttt tcccagtcac 120
174 gacgttgtaa aacgacggcc agtgccaagc ttgcatgcct gcaggtcgac tctagaggat 180
175 ccccggttac cgagctcgaa ttcgtaatca tggtcatagc tgtttcctgt gtgaaattgt 240
176 tatccgctca caattccaca caacaaaag taccggggga tctctagag tcg          293
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181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
186     synthesized sequence
188 <400> SEQUENCE: 12
189 cgactctaga ggatccccgg gtactttttg ttgtgtggaa ttgtgagcgg ataacaattt 60
190 cacacaggaa acagctatga ccatgattac gaattcgagc tcggtacccg gggatcctct 120
191 agagtgcacc tgcaggcatg caagcttggc actggccgtc gttttacaac gtcgtgactg 180
192 ggaaaaccct ggcgttacc cacttaatcg ccttgcagca catccccctt tcgccagctg 240
193 gcgtaatagc gaagaggccc gcacaaaaag ggttttccca gtcacgacgt tgt          293
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 459
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially

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Input Set : A:\Spl02001.app

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203 synthesized sequence

205 &lt;400&gt; SEQUENCE: 13

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206 acaacgtcgt gactgggaaa accctttttg tgcgggcctc ttcgctatta cgccagctgg 60
207 cgaaaggggg atgtgctgca aggcgattaa gttgggtaac gccagggttt tcccagtcac 120
208 gacgttgtaa aacgacggcc agtgccaagc ttgcatgcct gcaggtcgac tctagaggat 180
209 ccccggggtac cgagctcgaa ttcgtaatca tggatcatagc tgtttcctgt gtgaaattgt 240
210 tatccgctca caattccaca caacaaaaag taccggggga tcctctagag tcgacctgca 300
211 ggcattgcaag cttggcactg gccgtcggtt tacaacgtcg tgactgggaa aaccctggcg 360
212 ttacccaact taatgcctt gcagcacatc cccctttcgc cagctggcgt aatagcgaag 420
213 aggcccgcac aaaaagggtt ttcccagtcg cgacgttgt 459

```

216 &lt;210&gt; SEQ ID NO: 14

217 &lt;211&gt; LENGTH: 458

218 &lt;212&gt; TYPE: DNA

219 &lt;213&gt; ORGANISM: Artificial Sequence

221 &lt;220&gt; FEATURE:

222 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Artificially

223 synthesized sequence

225 &lt;400&gt; SEQUENCE: 14

```

226 cgactctaga ggatccccgg gtactttttg ttgtgtggaa ttgtgagcgg ataacaattt 60
227 cacacaggaa acagctatga ccatgattac gaattcgagc tcggtacccg gggatcctct 120
228 agagtcgacc tgcaggcatg caagcttggc actggcgcgc gttttacaac gtcgtgactg 180
229 gaaaaaccct ggcgttacc cacttaatcg ccttgacga catccccctt tcgccagctg 240
230 gcgtaatagc gaagaggccc gcacaaaaag ggttttccca gtcacgacgt tgtaaaacga 300
231 cggccagtgc caagcttgca tgctgcagg tcgactctag aggatccccg ggtaccgagc 360
232 tcgaattcgt aatcatggtc atagctgttt cctgtgtgaa attgttatcc gtcacaaatt 420
233 ccacacaaca aaaagtaccc ggggatccct tagagtgc 458

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236 &lt;210&gt; SEQ ID NO: 15

237 &lt;211&gt; LENGTH: 790

238 &lt;212&gt; TYPE: DNA

239 &lt;213&gt; ORGANISM: Artificial Sequence

241 &lt;220&gt; FEATURE:

242 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Artificially

243 synthesized sequence

245 &lt;400&gt; SEQUENCE: 15

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246 acaacgtcgt gactgggaaa accctttttg tgcgggcctc ttcgctatta cgccagctgg 60
247 cgaaaggggg atgtgctgca aggcgattaa gttgggtaac gccagggttt tcccagtcac 120
248 gacgttgtaa aacgacggcc agtgccaagc ttgcatgcct gcaggtcgac tctagaggat 180
249 ccccggggtac cgagctcgaa ttcgtaatca tggatcatagc tgtttcctgt gtgaaattgt 240
250 tatccgctca caattccaca caacaaaaag taccggggga tcctctagag tcgacctgca 300
251 ggcattgcaag cttggcactg gccgtcggtt tacaacgtcg tgactgggaa aaccctggcg 360
252 ttacccaact taatgcctt gcagcacatc cccctttcgc cagctggcgt aatagcgaag 420
253 aggcccgcac aaaaagggtt ttcccagtcg cgacgttgtg aaacgacggc cagtgcgaag 480
254 cttgcatgcc tgcaggtcga ctctagagga tcccggggta ctttttggtg tgtggaattg 540
255 tgagcggata acaatttcac acaggaaaca gctatgacca tgattacgaa ttcgagctcg 600
256 gtaccggggg atcctctaga gtcgacctgc aggcattgca gcttggcact ggccgtcggt 660
257 ttacaacgtc gtgactggga aaaccctggc gttacccaac ttaatgcctt tgcagcacat 720
258 cccctttcgc ccagctggcg taatagcga gaggcccgca caaaaagggt tttcccagtc 780
259 acgacgttgt 790

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262 &lt;210&gt; SEQ ID NO: 16

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DATE: 12/05/2001

TIME: 13:17:02

Input Set : A:\Sp102001.app

Output Set: N:\CRF3\11212001\I530061.raw

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263 <211> LENGTH: 789
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
269     synthesized sequence
271 <400> SEQUENCE: 16
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273 cacacaggaa acagctatga ccatgattac gaattcgagc tcggtaccgg gggatcctct 120
274 agagtgcacc tgcaggcatg caagcttggc actggccgtc gttttacaac gtcgtgactg 180
275 ggaaaaccct ggcgttacc cacttaatcg ccttgcagca catccccctt tcgccagctg 240
276 gcgtaatagc gaagaggccc gcacaaaaag ggttttccca gtcacgacgt tgtaaaacga 300
277 cggccagtgc caagcttgca tgctgcagg tcgactctag aggatccccg ggtaccgagc 360
278 tcgaattcgt aatcatggtc atagctgttt cctgtgtgaa attgttatcc gtcacaatt 420
279 ccacacaaca aaaagtacc ggggatcctc tagagtcgac ctgcaggcat gcaagcttgg 480
280 cactggccgt cgttttaca cgtcgtgact gggaaaacc tttttgtgcg ggcctcttcg 540
281 ctattacgcc agctggcgaa agggggatgt gctgcaaggc gattaagttg ggtaacgcca 600
282 gggttttccc agtcacgacg ttgtaaaacg acggccagtg ccaagcttgc atgcctgcag 660
283 gtcgactcta gaggatcccc gggatccgag ctgcaattcg taatcatggt catagctgtt 720
284 tcctgtgtga aattgttata cgctcacaat tccacacaac aaaaagtacc cggggatcct 780
285 ctagagtgc                                     789
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289 <211> LENGTH: 310
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
295     synthesized sequence
297 <400> SEQUENCE: 17
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299 cggaagtgtt gataagatag gggcatttgg tggctgttaa gcgggaggag tgcgaatcca 120
300 cactccaaaa gataccaaat actccaaaac agtttctctt ccaaaaagtaa ggcaggaaat 180
301 gtgaaaccac aatagttgtc tgatttttag gcccatatta acattgacat agctgactac 240
302 taattccctg gatgctgggt cttccaaatt acgatctggt ttcacatttc ctgccttact 300
303 tttggaagag                                     310
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307 <211> LENGTH: 465
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
313     synthesized sequence
315 <400> SEQUENCE: 18
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317 cggaagtgtt gataagatag gggcatttgg tggctgttaa gcgggaggag tgcgaatcca 120
318 cactccaaaa gataccaaat actccaaaac agtttctctt ccaaaaagtaa ggcaggaaat 180
319 gtgaaaccac aatagttgtc tgatttttag gcccatatta acattgacat agctgactac 240
320 taattccctg gatgctgggt cttccaaatt acgatctggt ttcacatttc ctgccttact 300
321 tttggaagag aaactgtttt ggagtatttg gtatcttttg gagtgtggat tcgcactcct 360

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## VERIFICATION SUMMARY

DATE: 12/05/2001

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Input Set : A:\Sp102001.app

Output Set: N:\CRF3\11212001\I530061.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date